



**Michelle Lujan Grisham**  
Governor

**Howie C. Morales**  
Lt. Governor

March 8, 2019

**NEW MEXICO  
ENVIRONMENT DEPARTMENT**

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Certified Mail-Return Receipt Requested



**James C. Kenney**  
Cabinet Secretary

**Jennifer J. Pruett**  
Deputy Secretary

Mr. Bob Detweiler, President  
Oshara Mutual Domestic Wastewater Association  
11 Craftsman Road, Oshara Village  
Santa Fe, New Mexico 87507

**RE: Oshara Village Water Reclamation Facility; Minor Facility; NPDES Permit No. NM0030813; NPDES Compliance Evaluation Inspection; February 21, 2019**

Dear Mr. Detweiler:

Enclosed please find a copy of the report and check list for the referenced inspection that the New Mexico Environment Department (NMED) conducted at your facility on behalf of the U. S. Environmental Protection Agency (USEPA). This inspection report will be sent to the USEPA in Dallas for their review. These inspections are used by USEPA to determine compliance with the National Pollutant Discharge Elimination System (NPDES) permitting program in accordance with the requirements of the federal Clean Water Act.

Further explanations are provided with the check list and discuss issues that should be addressed. The introduction and treatment scheme are also included with this inspection report.

You are encouraged to review the inspection report, required to correct any issues noted during the inspection, and advised to modify your operation and/or administrative procedures as appropriate. If you have comments on or concerns with the basis for the findings in the NMED inspection report, please contact us (see address below) in writing within 30 days from the date of this letter. Further, you are encouraged to notify in writing USEPA and NMED regarding modifications and compliance schedules at the address below:

David Long, NPDES Enforcement Coordinator  
Environmental Protection Agency, Region 6  
NPDES Enforcement Branch (6EN-WM)  
1445 Ross Avenue, Suite 1200  
Dallas, Texas 75202-2733

Sarah Holcomb, Program Manager  
New Mexico Environment Dept.  
Surface Water Quality Bureau  
Point Source Regulation Section  
PO Box 5469  
Santa Fe, New Mexico 87502

Oshara Village Water Reclamation Facility  
March 8, 2019  
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David Long ([Long.David@epa.gov](mailto:Long.David@epa.gov)) is USEPA Region 6's NPDES Enforcement Coordinator at the above address. If you have any questions about this inspection report, please contact Sandra Gabaldon at 505-827-1041 or [Sandra.gabaldon@state.nm.us](mailto:Sandra.gabaldon@state.nm.us)

Sincerely,

*/s/ Sarah Holcomb*

Sarah Holcomb, Program Manager  
Point Source Regulation Section  
Surface Water Quality Bureau

Cc: Carol Peters-Wagnon, USEPA (6EN-WM) via email  
David Long, USEPA (6EN-WM) via email  
Nancy Williams, USEPA (6EN-WC) via email  
Amy Andrews, USEPA (6EN-WM) via email  
David Esparza, USEPA (6EN-WM) via email  
Brent Larson, USEPA (6WQ-PP) via email  
Robert Italiano, NMED District II via email  
  
Loren Allen, Contract Operator via email



Form Approved  
OMB No. 2040-0003  
Approval Expires 7-31-85

## NPDES Compliance Inspection Report

### Section A: National Data System Coding

Transaction Code	NPDES	yr/mo/day	Inspec. Type	Inspector	Fac Type
1 <input type="text" value="N"/> 2 <input type="text" value="5"/> 3 <input type="text" value="N"/> <input type="text" value="M"/> <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="3"/> <input type="text" value="0"/> <input type="text" value="8"/> <input type="text" value="1"/> <input type="text" value="3"/>	<input type="text" value="1"/> <input type="text" value="9"/> <input type="text" value="0"/> <input type="text" value="2"/> <input type="text" value="2"/> <input type="text" value="1"/>	18 <input type="text" value="C"/>	19 <input type="text" value="S"/>	20 <input type="text" value="1"/>	
<input type="text" value="M"/> <input type="text" value="I"/> <input type="text" value="N"/> <input type="text" value="O"/> <input type="text" value="R"/>					
Inspection Work Days	Facility Evaluation Rating	BI	QA	Reserved	
67 <input type="text" value="1"/> 69	70 <input type="text" value="2"/>	71 <input type="text" value="N"/>	72 <input type="text" value="N"/>	73 <input type="text" value=""/>	74 <input type="text" value=""/>
				75 <input type="text" value=""/>	80 <input type="text" value=""/>

### Section B: Facility Data

Name and Location of Facility Inspected (For industrial users discharging to POTW, also include POTW name and NPDES permit number) <b>OSHARA VILLAGE WATER RECLAMATION FACILITY</b> No. 2 Willow Back Road Santa Fe, NM 87508  SANTA FE COUNTY	Entry Time /Date 1230 Hours / February 21, 2019	Permit Effective Date September 1, 2017
	Exit Time/Date 1400 Hours / February 21, 2019	Permit Expiration Date August 30, 2022
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s) Loren Allen; Allen Environmental, LLC; Contract Operator (505) 6902002	Other Facility Data 35°36'35.65" N -106°59'55.40" W	
Name, Address of Responsible Official/Title/Phone and Fax Number Oshara Village Mutual Domestic Wastewater Association Bob Detwiler, President (505) 629-4767	Contacted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	SIC 4952

### Section C: Areas Evaluated During Inspection

(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

<input type="text" value="S"/> Permit	<input type="text" value="U"/> Flow Measurement	<input type="text" value="M"/> Operations & Maintenance	<input type="text" value="N"/> CSO/SSO
<input type="text" value="U"/> Records/Reports	<input type="text" value="S"/> Self-Monitoring Program	<input type="text" value="S"/> Sludge Handling/Disposal	<input type="text" value="N"/> Pollution Prevention
<input type="text" value="S"/> Facility Site Review	<input type="text" value="N"/> Compliance Schedules	<input type="text" value="N"/> Pretreatment	<input type="text" value="N"/> Multimedia
<input type="text" value="S"/> Effluent/Receiving Waters	<input type="text" value="U"/> Laboratory	<input type="text" value="N"/> Storm Water	<input type="text" value="N"/> Other:

### Section D: Summary of Findings/Comments (Attach additional sheets if necessary)

Please see checklist and further explanations for details of findings

Name(s) and Signature(s) of Inspector(s) Sandra Gabaldon /s/ Sandra Gabaldon	Agency/Office/Telephone/Fax NMED/SWQB/(505) 827-1041/(505) 827-0160	Date March 8, 2019
Signature of Management QA Reviewer /s/ Sarah Holcomb Sarah Holcomb, Program Manager	Agency/Office/Phone and Fax Numbers NMED/SWQB/((505) 827-2798/(505) 827-0160	Date March 8, 2019

OSHARA VILLAGE WATER RECLAMATION FACILITY		PERMIT NO. NM0030813	
SECTION A – PERMIT VERIFICATION			
PERMIT SATISFACTORILY ADDRESSES OBSERVATIONS		<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA (FURTHER EXPLANATION ATTACHED <u>NO</u> )	
DETAILS:			
1. CORRECT NAME AND MAILING ADDRESS OF PERMITTEE		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
2. NOTIFICATION GIVEN TO EPA/STATE OF NEW DIFFERENT OR INCREASED DISCHARGES		<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA	
3. NUMBER AND LOCATION OF DISCHARGE POINTS AS DESCRIBED IN PERMIT		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
4. ALL DISCHARGES ARE PERMITTED		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
SECTION B – RECORDKEEPING AND REPORTING EVALUATION			
RECORDS AND REPORTS MAINTAINED AS REQUIRED BY PERMIT.		<input type="checkbox"/> S <input type="checkbox"/> M <input checked="" type="checkbox"/> U <input type="checkbox"/> NA (FURTHER EXPLANATION ATTACHED <u>YES</u> )	
DETAILS:			
1. ANALYTICAL RESULTS CONSISTENT WITH DATA REPORTED ON DMRs.		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA	
2. SAMPLING AND ANALYSES DATA ADEQUATE AND INCLUDE.		<input type="checkbox"/> S <input type="checkbox"/> M <input checked="" type="checkbox"/> U <input type="checkbox"/> NA	
a) DATES, TIME(S) AND LOCATION(S) OF SAMPLING		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA	
b) NAME OF INDIVIDUAL PERFORMING SAMPLING		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
c) ANALYTICAL METHODS AND TECHNIQUES.		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA	
d) RESULTS OF ANALYSES AND CALIBRATIONS.		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA	
e) DATES AND TIMES OF ANALYSES.		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
f) NAME OF PERSON(S) PERFORMING ANALYSES.		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
3. LABORATORY EQUIPMENT CALIBRATION AND MAINTENANCE RECORDS ADEQUATE.		<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA	
4. PLANT RECORDS INCLUDE SCHEDULES, DATES OF EQUIPMENT MAINTENANCE AND REPAIR.		<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA	
5. EFFLUENT LOADINGS CALCULATED USING DAILY EFFLUENT FLOW AND DAILY ANALYTICAL DATA.		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
SECTION C – OPERATIONS AND MAINTENANCE			
TREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED.		<input type="checkbox"/> S <input checked="" type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA (FURTHER EXPLANATION ATTACHED <u>YES</u> )	
DETAILS:			
1. TREATMENT UNITS PROPERLY OPERATED.		<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA	
2. TREATMENT UNITS PROPERLY MAINTAINED.		<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA	
3. STANDBY POWER OR OTHER EQUIVALENT PROVIDED .		<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA	
4. ADEQUATE ALARM SYSTEM FOR POWER OR EQUIPMENT FAILURES AVAILABLE.		<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA	
5. ALL NEEDED TREATMENT UNITS IN SERVICE		<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA	
6. ADEQUATE NUMBER OF QUALIFIED OPERATORS PROVIDED.		<input type="checkbox"/> S <input checked="" type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA	
7. SPARE PARTS AND SUPPLIES INVENTORY MAINTAINED.		<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA	
8. OPERATION AND MAINTENANCE MANUAL AVAILABLE.		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
STANDARD OPERATING PROCEDURES AND SCHEDULES ESTABLISHED.		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
PROCEDURES FOR EMERGENCY TREATMENT CONTROL ESTABLISHED.		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA	

OSHARA VILLAGE WATER RECLAMATION FACILITY		PERMIT NO. NM0030813	
SECTION C – OPERATIONS AND MAINTENANCE (CONT'D)			
9. HAVE BYPASSES/OVERFLOWS OCCURRED AT THE PLANT OR IN THE COLLECTION SYSTEM IN THE LAST YEAR?		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA	
IF SO, HAS THE REGULATORY AGENCY BEEN NOTIFIED?		<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA	
HAS CORRECTIVE ACTION BEEN TAKEN TO PREVENT ADDITIONAL BYPASSES/OVERFLOWS?		<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA	
10.HAVE ANY HYDRAULIC OVERLOADS OCCURRED AT THE TREATMENT PLANT?		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA	
IF SO, DID PERMIT VIOLATIONS OCCUR AS A RESULT?		<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA	
SECTION D – SELF-MONITORING			
PERMITTEE SELF-MONITORING MEETS PERMIT REQUIREMENTS. DETAILS:		<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA (FURTHER EXPLANATION ATTACHED <u>NO</u> ).	
1. SAMPLES TAKEN AT SITE(S) SPECIFIED IN PERMIT.		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
2. LOCATIONS ADEQUATE FOR REPRESENTATIVE SAMPLES.		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
3. FLOW PROPORTIONED SAMPLES OBTAINED WHEN REQUIRED BY PERMIT.		<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA	
4. SAMPLING AND ANALYSES COMPLETED ON PARAMETERS SPECIFIED IN PERMIT.		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
5. SAMPLING AND ANALYSES PERFORMED AT FREQUENCY SPECIFIED IN PERMIT.		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
6. SAMPLE COLLECTION PROCEDURES ADEQUATE		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
a) SAMPLES REFRIGERATED DURING COMPOSITING.		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
b) PROPER PRESERVATION TECHNIQUES USED.		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
c) CONTAINERS AND SAMPLE HOLDING TIMES CONFORM TO 40 CFR 136.3.		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
7. IF MONITORING AND ANALYSES ARE PERFORMED MORE OFTEN THAN REQUIRED BY PERMIT, ARE THE RESULTS REPORTED IN PERMITTEE'S SELF-MONITORING REPORT?		<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA	
SECTION E – FLOW MEASUREMENT			
PERMITTEE FLOW MEASUREMENT MEETS PERMIT REQUIREMENTS. DETAILS:		<input type="checkbox"/> S <input type="checkbox"/> M <input checked="" type="checkbox"/> U <input type="checkbox"/> NA (FURTHER EXPLANATION ATTACHED <u>YES</u> )	
1. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED. TYPE OF DEVICE: Parshall Flume		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
2. FLOW MEASURED AT EACH OUTFALL AS REQUIRED.		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
3. SECONDARY INSTRUMENTS (TOTALIZERS, RECORDERS, ETC.) PROPERLY OPERATED AND MAINTAINED.		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
4. CALIBRATION FREQUENCY ADEQUATE.		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA	
RECORDS MAINTAINED OF CALIBRATION PROCEDURES.		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA	
CALIBRATION CHECKS DONE TO ASSURE CONTINUED COMPLIANCE.		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA	
5. FLOW ENTERING DEVICE WELL DISTRIBUTED ACROSS THE CHANNEL AND FREE OF TURBULENCE.		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
6. HEAD MEASURED AT PROPER LOCATION.		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
7. FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGE OF FLOW RATES.		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
SECTION F – LABORATORY			
PERMITTEE LABORATORY PROCEDURES MEET PERMIT REQUIREMENTS. DETAILS:		<input type="checkbox"/> S <input type="checkbox"/> M <input checked="" type="checkbox"/> U <input type="checkbox"/> NA (FURTHER EXPLANATION ATTACHED <u>YES</u> )	
1. EPA APPROVED ANALYTICAL PROCEDURES USED (40 CFR 136.3 FOR LIQUIDS, 503.8(b) FOR SLUDGES)		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA	

OSHARA VILLAGE WATER RECLAMATION FACILITY						PERMIT NO. NM0030813	
SECTION F - LABORATORY (CONT'D)							
2. IF ALTERNATIVE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS BEEN OBTAINED						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA	
3. SATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPMENT.						<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA	
4. QUALITY CONTROL PROCEDURES ADEQUATE.						<input type="checkbox"/> S <input type="checkbox"/> M <input checked="" type="checkbox"/> U <input type="checkbox"/> NA	
5. DUPLICATE SAMPLES ARE ANALYZED. <u>0</u> % OF THE TIME.						<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA	
6. SPIKED SAMPLES ARE ANALYZED. <u>0</u> % OF THE TIME.						<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA	
7. COMMERCIAL LABORATORY USED.						<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
LAB NAME <u>Hall Environmental Analysis Laboratory</u> <u>Sage ATC Environmental Consulting</u>							
LAB ADDRESS <u>4901 Hawkins, NE; Albuquerque, NM 87109</u> <u>832 NW 67<sup>th</sup> Street; Oklahoma City, OK 73116</u>							
PARAMETERS PERFORMED: BOD, TSS, E. Coli <u>Biomonitoring (WET)</u>							
SECTION G - EFFLUENT/RECEIVING WATERS OBSERVATIONS. <input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA (FURTHER EXPLANATION ATTACHED <u>NO</u> ). No Discharge occurring at the time of inspection							
OUTFALL NO.	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	FLOAT SOL.	COLOR	OTHER
001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RECEIVING WATER OBSERVATIONS <u>Receiving water had a slightly milky white color</u>							

SECTION H - SLUDGE DISPOSAL							
SLUDGE DISPOSAL MEETS PERMIT REQUIREMENTS. <input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA (FURTHER EXPLANATION ATTACHED <u>NO</u> ). DETAILS: Sludge is removed through septic haulers and taken to either Pojoaque Pueblo or City of Santa Fe WWTP.							
1. SLUDGE MANAGEMENT ADEQUATE TO MAINTAIN EFFLUENT QUALITY.						<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA	
2. SLUDGE RECORDS MAINTAINED AS REQUIRED BY 40 CFR 503.						<input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input checked="" type="checkbox"/> NA	
3. FOR LAND APPLIED SLUDGE, TYPE OF LAND APPLIED TO: <u>N/A</u> (e.g., FOREST, AGRICULTURAL, PUBLIC CONTACT SITE)							
SECTION I - SAMPLING INSPECTION PROCEDURES (FURTHER EXPLANATION ATTACHED <u>  </u> ).							
1. SAMPLES OBTAINED THIS INSPECTION.						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA	
2. TYPE OF SAMPLE OBTAINED GRAB <u>                  </u> COMPOSITE SAMPLE <u>  </u> METHOD <u>          </u> FREQUENCY <u>          </u>							
3. SAMPLES PRESERVED.						<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
4. FLOW PROPORTIONED SAMPLES OBTAINED.						<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
5. SAMPLE OBTAINED FROM FACILITY'S SAMPLING DEVICE.						<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
6. SAMPLE REPRESENTATIVE OF VOLUME AND MATURE OF DISCHARGE.						<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
7. SAMPLE SPLIT WITH PERMITTEE.						<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
8. CHAIN-OF-CUSTODY PROCEDURES EMPLOYED.						<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
9. SAMPLES COLLECTED IN ACCORDANCE WITH PERMIT.						<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	

OSHARA VILLAGE WATER RECLAMATION FACILITY

NPDES Permit No. NM0030813

NPDES Compliance Evaluation Inspection

Date of Inspection: February 21, 2019

**Introduction:**

On February 21, 2019, Sandra Gabaldón and Daniel Valenta of the New Mexico Environment Department (NMED), Surface Water Quality Bureau (SWQB) conducted a Compliance Evaluation Inspection (CEI) at the Oshara Village Water Reclamation Facility (WRF). The Oshara Village WRF has a design flow capacity of 0.03 MGD (million gallons per day) and is classified as a minor discharger under the Federal Clean Water Act, Section 402, of the National Pollutant Discharge Elimination System (NPDES) permit program. It is assigned NPDES permit number NM0030813. This permit regulates the WRF discharge to an unnamed arroyo in NMAC segment 20.6.4.98 of the Rio Grande Basin. This segment includes the designated uses of livestock watering, wildlife habitat, marginal warmwater aquatic life and primary contact.

The NMED performs a certain number of CEIs for the U.S. Environmental Protection Agency (USEPA), Region VI, under the NPDES permit program, in accordance with the Federal Clean Water Act. USEPA uses these inspections to determine compliance with the NPDES permit program. This inspection report is based on information provided by the permittee's representatives, observations made by the NMED inspectors, and records and reports kept by the permittee and/or NMED.

Upon arrival at the WRF at 1230 hours on February 21, 2019, Ms. Gabaldón conducted an entrance interview with Mr. Loren Allen, (NM Certified Level IV). Ms. Gabaldón presented her credentials and explained the purpose of the inspection. Mr. Allen conducted a tour of the facility. An exit interview was conducted with Mr. Allen at the facility at approximately 1345 hours on February 21, 2019 to present the preliminary findings of the inspection. Mr. Allen provided benchsheets, flow documentation and calibration for all parameters either done by himself or a contract laboratory.

**Treatment Scheme:**

The facility is a Sequencing Batch Reactor (SBR). The system consists of one lift station that brings raw influent from approximately 50 houses in the Oshara Village to the Water Reclamation Facility.

Flow then travels to an approximately 12" wide barscreen with 1" openings to catch large rags and debris.

From the headworks, influent travels into the conditioning sludge storage tank. Influent then travels into an anoxic equalization tank. Two pumps then transfer the influent to the Sequencing Batch Reactor which has an aspirating aerator that provides oxygen to the system. Each cycle of treatment consists of fill/react, interact/react, settle and decant. The phases of treatment are controlled by a PLC (Programmable Logic Controller), which the operator can adjust manually to provide optimum treatment phases.

Disinfection of the wastewater is achieved through a chlorine contact tank. Sodium hypochloride is dosed into the decant pipe during the decant phase, then it is dechlorinated with sodium thiosulfate before entering the unnamed arroyo.

The effluent is metered by an ultrasonic flow meter. There is a primary Palmer Bowles Flume as well. The effluent enters the Arroyo Hondo through a 10" closed pipe with a rip rap area below the pipe to eliminate erosion and provide velocity dissipation.



# **OSHARA VILLAGE WATER RECLAMATION FACILITY**

NPDES Permit No. NM0030813

NPDES Compliance Evaluation Inspection

Date of Inspection: February 21, 2019

## **Further Explanations:**

**Note:** The sections are arranged according to the format of the enclosed EPA Inspection Checklist (Form 3560-3), rather than being ranked in order of importance.

## **Section B – Recordkeeping and Reporting Evaluation – Overall Rating of “Unsatisfactory”.**

**Permit Requirements** for Recordkeeping and Reporting:

**Part I – Requirements for NPDES permitting, A. Limitations and Monitoring Requirements state:**

EFFLUENT CHARACTERISTICS		DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
		Standard Units			
POLLUTANT	STORET CODE	MINIMUM	MAXIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
PH	00400	6.6	9.0	5 /Week	Grab
EFFLUENT CHARACTERISTICS		DISCHARGE LIMITATIONS			
		lbs/day, unless noted		mg/l, unless noted	
POLLUTANT	STORET CODE	30-DAY AVG	7-DAY AVG	30-DAY AVG	7-DAY AVG
Flow	50050	Report GPD	Report GPD	N/A	N/A
Biochemical Oxygen Demand, 5-day	00310	7.51	11.27	30	45
Total Suspended Solids	00530	7.51	11.27	30	45
Total Residual Chlorine	50060	N/A	N/A	N/A	N/A
<i>E. coli</i> Bacteria	51040	N/A	N/A	206	N/A
Whole Effluent Toxicity Testing					
Daphnia pulex		30-Day Avg		48-Hr Minimum	Measurement Frequency
		Report		Report	Once/Term (*6)

- \*6 Once per permit term. The test shall take place between November 1 and April 30 during the first year of the permit term.

40 CFR 127.16:

*Implementation of electronic reporting requirements for NPDES permittees, facilities, and entities subject to this part (a) Scope and schedule. NPDES permittees, facilities, and entities subject to this part except for those covered by waivers under §§ 127.15 and 127.24, must electronically submit the following NPDES information (reports, notices, waivers, and certifications) after the start dates listed in Table 1 of this section.*

NPDES information	Start dates for electronic submissions
Discharge Monitoring Reports [40 CFR 122.41(I)(4)]	December 21, 2016.

The permit requires, in part III.C.4, Records Contents:

*Records of monitoring information shall include:*

- a. The date, exact place, and time of sampling or measurements;*
- b. The individual(s) who performed the sampling or measurements;*
- c. The date(s) and time(s) analyses were performed;*
- d. The individual(s) who performed the analyses;*
- e. The analytical techniques or methods used; and*
- f. The results of such analyses.*

**Findings** for Recordkeeping and Reporting:

The permittee has failed to submit Discharge Monitoring Reports (DMRs) electronically to EPA and continues to submit paper DMRs without a waiver. The permittee was instructed on the next internet training for the NetDMR system.

The analytical techniques or methods used are not on the in-house benchsheets for TRC or pH. They also do not provide the exact place of sampling.

The permittee provided bench sheets for several months in 2018 and included January 2019. The following issues were seen with those bench sheets provided:

- The permittee uses a contract laboratory for Biochemical Oxygen Demand (BOD), Total Suspended Solids (TSS), and Escherichia coli (E. coli). Analysis of pH and Total Residual Chlorine (TRC) are done on site and performed by the permittee.

June 2018

- The permittee analyses E. coli once per month. On the DMR for June 2018, the permittee stated the daily max was 2.33 and the 30-day average was 8.43. It is unclear to NMED how the permittee derived these numbers. The bench sheet from Hall Environmental shows the results as two (2) mpn/100 mL.
- The signature on the June 2018 DMR is Tai Bixby. It is unclear who this individual is. The previous signatory for DMRs was Alan Hoffman. No records were provided that showed a change in signatory was done either with EPA or NMED.
- TSS was reported as zero on the DMR. However, the PQL on the bench sheet is 4.0 mg/L. The permittee should be submitting the PQL rather than zero. All calculations for loading are incorrect and should be corrected and re-submitted to EPA as soon as possible.

#### December 2018

- The DO depletion for BOD was greater than 0.20 mg/L in the blanks. The laboratory needs to obtain satisfactory water by improving purification or use a water from another source. The permittee failed to report this issue on their DMR.
- Hall Environmental uses SM5210B for BOD. For Standard Methods 21<sup>st</sup> Edition, requires that the laboratory provides the length of storage and temperature with the analytical results.

#### In-House (pH and TRC)

- The permittee does not provide the analytical method being used for either pH or TRC.
- Calibration for pH, according to Standard Methods 21<sup>st</sup> Edition, 4500-H<sup>+</sup>, states “Perform initial calibration with a minimum of three concentrations of standards for linear curves.” The permittee provided calibration records for pH but does not provide any calibration results. Rather, the permittee provides a check mark stating that the buffer was used. Standard Methods further states: “Use a pH meter accurate and reproducible to 0.1 pH units with a range of 0 to 14 and equipped with a temperature-compensation adjustment. The permittee should provide calibration results on the bench sheet to verify that the pH meter is accurate and reproducible to 0.1 pH units.
- Standard Methods, 4500-Cl DPD Colorimetric Method requires calibration of the photometric equipment with chlorine or potassium permanganate solutions. No calibration records were provided by the permittee.
- When performing colorimetric procedures, Standard Methods 21<sup>st</sup> Edition states, “compensate for color and turbidity by using a color and turbidity blank.” There is no indication the permittee does blank samples.
- The Hach instrumentation for TRC provides standardized samples to ensure the instrumentation is reading the samples correctly. There is no indication that the permittee is running any standardized testing.

#### **Section C – Operations and Maintenance – Overall Rating “Marginal”:**

The permit requires, in Part III.B.3.a, Proper Operation and Maintenance:

- a. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by permittee as efficiently as possible and in a manner, which will minimize upsets and discharges of excessive pollutants and will achieve compliance with the conditions of this permit. Proper operation and maintenance also include adequate laboratory controls and appropriate quality assurance procedures. This provision requires that operation of backup or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of this permit.*
- b. The permittee shall provide an adequate operating staff which is duly qualified to carry out operation, maintenance and testing functions required to insure compliance with the conditions of this permit.*

The permit requires, in Part II.E Pollution Prevention Requirements:

*The permittee shall institute a program within 12 months of the effective date of the permit (or continue an existing one) directed towards optimizing the efficiency and extending the useful life of the facility. The permittee shall consider the following items in the program:*

- (a) The influent loadings, flow and design capacity;*
- (b) The effluent quality and plant performance;*
- (c) The age and expected life of the wastewater treatment facility's equipment;*
- (d) Bypasses and overflows of the tributary sewerage system and treatment works;*
- (e) New developments at the facility;*
- (f) Operator certification and training plans and status;*
- (g) The financial status of the facility;*
- (h) Preventive maintenance programs and equipment conditions and;*
- (i) An overall evaluation of the conditions of the facility.*

**Findings** for Operation and Maintenance:

The permittee has not instituted a program within 12 months of the effective date of the permit directed towards optimizing the efficiency and extending the useful life of the facility. The permit was issued in 2017.

It is recommended that a second certified operator be staffed at this facility if the primary operator is on vacation or becomes ill. There is only one certified operator. Only well-trained, competent operators can be expected to perform adequate operation, repairs, and preventive maintenance. Wastewater facility maintenance is complex and requires a variety of skills.

The facility has no written emergency plan in place. At all times, the facility should follow safe operating procedures. Employees must be trained in emergency shut-down, fire control, and spill response procedures, as well as in the use of safety equipment, safe sampling techniques, and safe handling of chemicals and wastes.

### **Section E – Flow Measurement – Overall Rating “Unsatisfactory”**

In Part III.C.6 – Flow Measurements:

Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated and maintained to ensure that the accuracy of the measurements is consistent with accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than 10% from true discharge rates throughout the range of expected discharge volumes.

**Findings** for Flow Measurement:

The permittee did not provide calibration documentation of the last year.

The permittee did not provide documentation of any calibration checks performed in the interim.

### **Section F – Laboratory – Overall Rating of “Marginal”**

Permit requirements in Part III, Section C.5. Monitoring Procedures:

- a. Monitoring must be conducted according to test procedures approved under 40 CFR 136, unless other tests procedures have been specified in this permit or approved by the Regional Administrator.*
- b. The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instruments at intervals frequent enough to insure accuracy of measurements and shall maintain appropriate records of such activities.*
- c. An adequate analytical quality control program, including the analysis of sufficient standards, spikes and duplicate samples to insure the accuracy of all requirements and analytical results shall be maintained by the permittee or designated commercial laboratory.*

**Findings** for Laboratory:

The permittee did not specify on the benchsheets for pH and TRC which analytical method was being used. It is not clear if they are approved under 40 CFR 136.

The permittee is not doing duplicate sampling. The precision of laboratory findings refers to the reproducibility or degree of agreement among replicate measurements of the same quantity. The closer the numerical values of the measurements come to each other, the more precise are the measurements. In a laboratory QC program, precision is determined by the analysis of actual samples in duplicate. Every tenth sample should be a duplicate to ensure the permittee is doing their 10% duplicate sampling.